



Homework 5 Defining and updating tables using SQL

1. The entities Flight and Passenger are linked in a one-to-many relationship.

The table Flight has the following compulsory fields:

FlightID	CHAR (5) (Primary key field)
Date	DATE (dd/mm/yy) (Primary key field)
DestinationID	CHAR (4)

The table Passenger has the following compulsory fields:

PassportNo	CHAR (8) (Primary key)
Surname	VARCHAR (20) (Variable length)
Firstname	VARCHAR (20) (Variable length)
FlightID	CHAR (5)
Date	DATE

- (a) What is a composite primary key? Give an example. [2]

- (b) Identify a foreign key in the tables above. What is the purpose of the foreign key? [2]

- (c) Write an SQL statement to extract the passport numbers, surnames and firstnames of all passengers on Flight BA401 on 12/11/2016. [5]

- (d) Write an SQL statement to create the table Flight. [5]



- (e) Write an SQL statement to create the table Passenger [5]
- (f) Write an SQL statement to add two new columns for Telephone, 16 characters (variable length) and email, 20 characters (variable length) to the Passenger table. [2]
- (g) Write an SQL statement to delete the column email from the Passenger table. [2]
- (h) Write an SQL statement to insert a record for passenger Jo Harris, passport number 12345678. [2]



TOTAL 25 marks